

FIG. 1

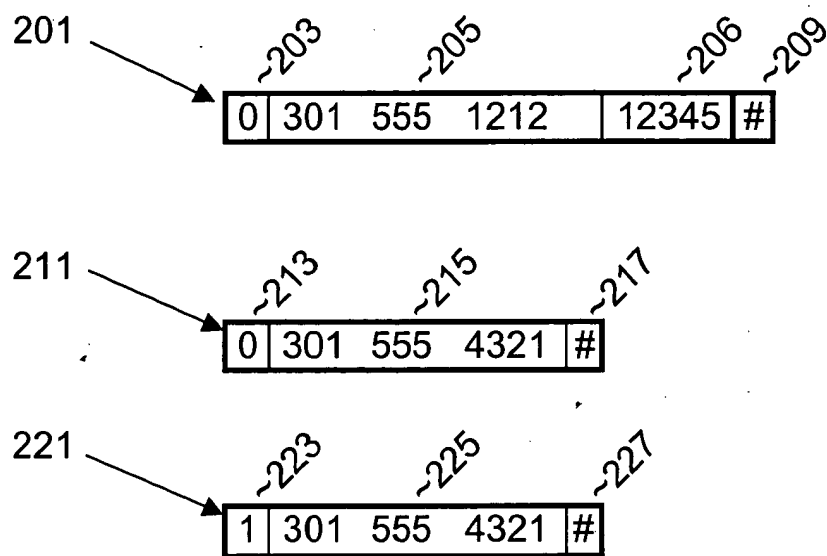


FIG. 2

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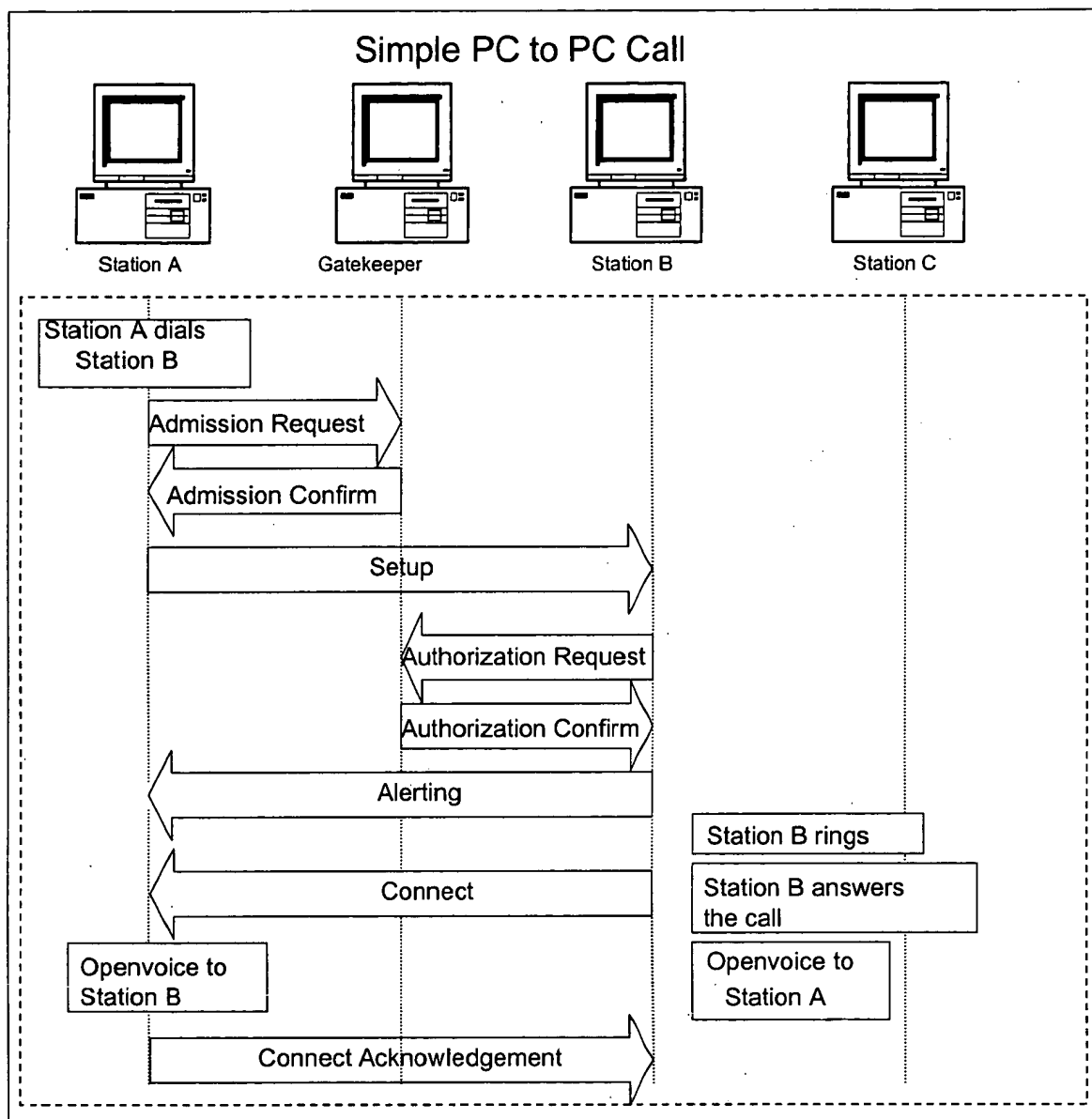


FIG. 3

| Message Elements          |                 | Bytes                      | Value | Description                 |
|---------------------------|-----------------|----------------------------|-------|-----------------------------|
| Gatekeeper Message Format |                 |                            |       |                             |
|                           | Ethernet Header |                            |       |                             |
|                           |                 | Destination MAC Address    | 6     |                             |
|                           |                 | Source MAC Address         | 6     |                             |
|                           |                 | Type                       | 2     |                             |
|                           | IP Header       |                            |       |                             |
|                           |                 | Version/Head Len           | 1     |                             |
|                           |                 | Service Type               | 1     |                             |
|                           |                 | Total Length               | 2     |                             |
|                           |                 | Identification             | 2     |                             |
|                           |                 | Flags/Fragmentation Offset | 2     |                             |
|                           |                 | TTL                        | 1     |                             |
|                           |                 | Protocol                   | 1     |                             |
|                           |                 | Checksum                   | 2     |                             |
|                           |                 | Source Address             | 4     |                             |
|                           |                 | Destination Address        | 4     |                             |
|                           | UDP Header      |                            |       |                             |
|                           |                 | Source Port                | 2     |                             |
|                           |                 | Destination Port           | 2     |                             |
|                           |                 | Total Length               | 2     |                             |
|                           |                 | Checksum                   | 2     |                             |
|                           | Other           |                            |       |                             |
|                           |                 | CRC-8                      | 1     |                             |
|                           |                 | Chan ID High               | 1     |                             |
|                           |                 | Chan ID Low                | 1     |                             |
|                           |                 | Protocol Discrim           | 1     |                             |
|                           |                 | Call Reference             | 3     |                             |
|                           |                 | Message Type               | 1     | 0x70 ZeroPlus Message Type  |
|                           |                 | ZeroPlus Message Type      | 1     | Define for ZeroPlus Message |
|                           |                 | Specific IE ID             | 1     | Specific IEs                |

FIG. 4 - Gatekeeper Message Format

| Message Elements                                     |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| Gatekeeper Request Message 0x38 Information Elements |                         |       |       |   |
| Request Sequence Number                              |                         |       |       |   |
|  | Req Seq Number          | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | A monotonically increasing number unique to the sender. It shall be returned to the receiver in any message associated with this specific message |
|  | UIDPIN                  | 1     |       | ID of UIDPIN Information Element  |
|  | Length (L)              | 1     | L1    | Length of UIDPIN  |
|  | UID                     | L1    |       | ASCII UIDPIN  |
|  | Client Version          | 1     | 0x72  | ID of Client Version Information Element  |
|  | Length                  | 1     | L2    | Number of bytes in Client Version IE (8 bytes)  |
|  | Client Version          | L2    |       | Client Version consists of 4 integers: MAJOR, MINOR, BUG_FIX, PATCH   |

FIG. 5 - Gatekeeper Request Message Information Elements

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| Message Elements   |    | Bytes | Value   | Description |
|--|----|-------|---|-------------|
| Gatekeeper Confirm Message 0x39 Information Elements (Section 1) |    |       |   |             |
| Req Seq No.  | 1  | 0x65  | ID of requested sequence Number Information Element   |             |
| Request Sequence Number  | 2  |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any message associated with the specific message. |             |
| Station Type   | 1  | 0x2F  | ID of Station Type Information Element  |             |
| Station Type   | 1  | 0x00  | Station_Telset  |             |
|  |    | 0x01  | Station_CO  |             |
|  |    | 0x05  | Groundstart   |             |
|  |    | 0x06  | Loopstart   |             |
|  |    | 0x07  | Wink_start  |             |
|  |    | 0x08  | Wink_Start_With_FGBD  |             |
|  |    | 0x09  | Delay_Dial  |             |
|  |    | 0x0A  | Immediate_Start   |             |
|  |    | 0x0B  | Fixed_Pause   |             |
|  |    | 0x0C  | ISDN_BRI_MVIP   |             |
|  |    | 0x0E  | ISDN_PRI  |             |
| Country Code*  | 1  | 0x55  | ID of country Code Information Element  |             |
| CC Length*   | 1  | L1    | Length of Country Code  |             |
| Country Code*  | L1 |       | ASCII Country Code  |             |
| City Code*   | 1  |       | ID of City Code Information Element   |             |
| City Code Length*  | 1  | L2    | Length of City Code   |             |
| City Code*   | L2 |       | ASCII City Code   |             |
| COC*   | 1  | 0x57  | ID of COC Information Element   |             |
| COC Length*  | 1  | L3    | Length of COC   |             |
| Central Office Code*   | L3 |       | ASCII COC   |             |
| XXXX*  | 1  | 0x58  | ID of XXXX Information Element  |             |
| XXXX Length*   | 1  | L4    | Length of XXXX  |             |
| Extension*   | L4 |       | ASCII XXXX  |             |

\* For End Station Only

FIG. 6a - Gatekeeper Confirmation Message Information Elements

| Message Elements   |                   | Bytes | Value | Description   |
|--|-------------------|-------|-------|---|
| Gatekeeper Confirm Message 0x39 Information Elements (Section 2) |                   |       |       |   |
|  | Rec_ID            | 1     | 0x5D  | ID of Rec_ID Information Element  |
|  | Length            | 1     | L1    | Length of Rec_ID  |
|  | Record ID         | L1    |       | Record ID of CDR  |
|  | Feature Info      | 1     | 0x7b  | ID of Feature Info Information Element  |
|  | Length            | 1     |       | Number of Bytes in Feature Info IE  |
|  | Feature Status 0  | 1     |       | Bit 7 - Forward on Busy and No Answer<br>Bit 6 - Forward on No Answer<br>Bit 5 - Forward on Busy<br>Bit 4 - Forward Unconditional<br>Bit 3 - Call Waiting<br>Bit 2 - Transfer<br>Bit 1 - Call Blocking for Outgoing Calls<br>Bit 0 - Call Blocking for Incoming Calls |
|  | Feature Status 1  | 1     |       | For future Use  |
|  | Feature Status 2  | 1     |       | For future Use  |
|  | Feature Status 3  | 1     |       | For future Use  |
|  | Feature Allowed 0 | 1     |       | Bit 7 - Forward on Busy and No Answer<br>Bit 6 - Forward on No Answer<br>Bit 5 - Forward on Busy<br>Bit 4 - Forward Unconditional<br>Bit 3 - Call Waiting<br>Bit 2 - Transfer<br>Bit 1 - Call Blocking for Outgoing Calls<br>Bit 0 - Call Blocking for Incoming Calls |
|  | Feature Allowed 1 | 1     |       | For future Use  |
|  | Feature Allowed 2 | 1     |       | For future Use  |
|  | Feature Allowed 3 | 1     |       | For future Use  |

FIG. 6b - Gatekeeper Confirmation Message Information Elements

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| Message Elements                                    |                      | Bytes | Value                        | Description  |
|---|----------------------|-------|------------------------------|--|
| Gatekeeper Reject Message 0x3A Information Elements |                      |       |                              |  |
|   | Req Seq No           | 1     | 0x65                         | ID of Request Sequence Number Information Element  |
|   | Request Sequence No. | 2     |                              | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any message associated with this specific message. |
|   | Cause                | 1     | 0x0E                         | ID of Cause Information Element  |
|   | Cause Code           | 1     | 0x01<br>0x02<br>0x03<br>0x08 | Success<br>Already Being Configured<br>Not in Host List<br>Validation Failed   |

FIG. 7 - Gatekeeper Rejection Message Information Elements

| Message Elements                                    |                      | Bytes | Value | Description  |
|---|----------------------|-------|-------|--|
| Admission Request Message 0x3E Information Elements |                      |       |       |  |
|   | Req Seq No           | 1     | 0x65  | ID of Request Sequence Number Information Element  |
|   | Request Sequence No. | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any message associated with this specific message. |
|   | UIDPIN               | 1     | 0x6B  | ID of UIDPIN information Element   |
|   | Length (L)           | 1     |       | Length of UIDPIN   |
|   | UIDPIN               | L     |       | ASCII UIDPIN   |
|   | Calling Party        | 1     | 0x13  | ID of Calling Party Information Element  |
|   | Length (L)           | 1     | L1    | Length of Calling Party Number   |
|   | Calling Party Number | L1    |       | ASCII Calling Party Number   |
|   | Called Party         | 1     | 0x42  | ID of Called Party Information Element   |
|   | Length (L)           | 1     | L2    | Length of Called Party Number  |
|   | Called Party Number  | L2    |       | ASCII Called Party Number  |

FIG. 8 - Admission Request Message 0x3E Information Elements



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| Message Elements   |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| Admission Confirmation Message 0x3F Information Elements (Section 1) |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence No.    | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|  | Auth Code               | 1     | 0x45  | ID of Authorization Code Information Element  |
|  | Next Authorization Code | 4     |       | Authorization Code to use for the next call   |
|  | Max Duration            | 1     | 0x5A  | ID of Max Duration Information Element  |
|  | Duration                | 4     |       | Max Duration of call in seconds   |
|  | Orig UID                | 1     | 0x46  | ID of UID Information Element   |
|  | Length (L)              | 1     |       | Length of UID   |
|  | Originating UID         | L1    |       | ASCII Originating UID   |
|  | ORIG E164               | 1     | 0x69  | ID of OrigE164 Information Element  |
|  | Length (L)              | 1     |       | Length of Originating E164 Number   |
|  | Originating E164 Number | L2    |       | ASCII Originating E164 Number   |
|  | TERMS                   | 1     | 0x70  | ID of TermE164 Information Element  |
|  | Length (L)              | 1     |       | Length of Terminating E 164 Number  |
|  | Terminating E164 Number | L3    |       | ASCII Terminating E164 Number   |

FIG. 9a - Admission Confirm Message 0x3F Information Elements

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| Message Elements   |                       | Bytes | Value  | Description  |
|--|-----------------------|-------|--|--|
| Admission Confirmation Message 0x3F Information Elements (Section 2) |                       |       |  |  |
|  | Acct Type             | 1     | 0x5C   | ID of Account Type Information Element   |
|  | Accounty Type         | 2     | 0x01<br>0x02<br>0x03   | Credit Account<br>Debit Card<br>Limited Credit Account   |
|  | Rec_id                | 1     | 0x5D   | ID of Rec_id Information Element   |
|  | Length (L)            | 1     | L1   | Length of Rec_id   |
|  | Record ID             | L1    |  | Record ID of CDR   |
|  | Call Rate             | 1     | 0x6D   | ID of Call Rate Information Element  |
|  | Rate                  | 4     |  | Rate in Host Byte Order  |
|  | IP_UID Tuple          | 1     | 0x5B   | ID of IP_UID Tuple Information Element   |
|  | No. Tuples            | 1     |  | Number of tuples in this message   |
|  | Host IP Address 1     | 4     |  | IP Address of Host   |
|  | Term UID Length (L)   | 1     | L2   | Length of Terminating UID  |
|  | Term UID1             | L2    |  | ASCII Terminating UID  |
|  | BillingUID Length (L) | 1     | L3   | Length of Billing UID  |
|  | Billing UID           | L3    |  | ASCII Billing UID  |
|  | Outpulse No. Len      | 1     |  | Length of Outpulse No.   |
|  | Outpulse No.          | 4     |  | ASCII Outpulse No.   |
|  | Station Type          | 1     | 0x00<br>0x01<br>0x05<br>0x06<br>0x07<br>0x08<br>0x09<br>0x0A<br>0x0B<br>0x0C<br>0x0E | STATION_TELSET<br>STATION_CO<br>GROUNDSTART<br>LOOPSTART<br>WINKSTART<br>WINK_START_WITH_FGBD<br>DELAY_DIAL<br>IMMEDIATE_START<br>FIXED_PAUSE<br>ISDN_BRI_MVIP<br>ISDN_PRI |

FIG. 9b - Admission Confirm Message 0x3F Information Elements

| Message Elements                                  |                         | Bytes  | Value  | Description  |
|---|-------------------------|--------|--|--|
| Admission Reject Message 0x40 Information Element |                         |        |  |  |
|   | Req Seq No              | 1      | 0x65   | ID of Request Sequence Number Information Element  |
|   | Request Sequence Number | 2      |  | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message.        |
|   | Cause<br>Cause Code     | 1<br>1 | 0x0E<br>0x01<br>0x02<br>0x03<br>0x08<br>0x09<br>0x0A | ID of Cause Information Element<br>Success<br>Already Being Configured<br>Not in Host List<br>Validation Failed<br>Could not translate number<br>Permission Denied |

FIG. 10 - Admission Reject Message 0x40 Information Element

| Message Elements  |                                | Bytes | Value | Description   |
|---|--------------------------------|-------|-------|---|
| Authorization Request Message 0x41 Information Elements |                                |       |       |   |
|   | Req Seq No                     | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number        | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|   | Orig UID                       | 1     | 0x46  | ID of UID Information Element   |
|   | Length (L)                     | 1     | L1    | Length of UID   |
|   | Originating UID                | L1    |       | ASCII Originating UID   |
|   | Auth Code                      | 1     | 0x45  | ID of Authorization Code Information Element  |
|   | Authorization Code             | 4     |       | Authorization Code  |
|   | Term UID                       | 1     | 0x62  | ID of Terminating UID Information Element   |
|   | Length (L)                     | 1     | L2    | Length of Terminating UID   |
|   | Terminating UID                | L2    |       | ASCII Terminating UID   |
|   | Orig GW IP Addr                | 1     | 0x73  | ID of Originating Gateway IP Address Information Element  |
|   | Length (L)                     | 1     | L3    | Length of Originating Gateway IP Address  |
|   | Originating Gateway IP Address | L3    |       | Originating Gateway IP Address  |
|   | Term GW IP Addr                | 1     | 0x73  | ID of Terminating Gateway IP Address Information Element  |
|   | Length (L)                     | 1     | L4    | Length of Terminating Gateway IP Address  |
|   | Terminating Gateway IP Address | L4    |       | Terminating Gateway IP Address  |

FIG. 11 - Authorization Request Message 0x41 Information Elements

| Message Elements  |                         | Bytes | Value                | Description   |
|---|-------------------------|-------|----------------------|---|
| Authorization Confirm Message 0x42 Information Elements |                         |       |                      |   |
|   | Req Seq No              | 1     | 0x65                 | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number | 2     |                      | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|   | Acct Type               | 1     | 0x5C                 | ID of Account Type Information Element  |
|   | Account Type            | 2     | 0x01<br>0x02<br>0x03 | Credit Account<br>Debit Card<br>Limited Credit Account  |
|   | Max Duratio             | 1     | 0x5A                 | ID of Max Duration Information Element  |
|   | Duration                | 4     |                      | Max Duration of call in seconds   |

FIG. 12 - Authorization Confirm Message 0x42 Information Elements

| Message Elements                                       |                         | Bytes | Value                        | Description   |
|--|-------------------------|-------|------------------------------|---|
| Authorization Reject Message 0x43 Information Elements |                         |       |                              |   |
|  | Req Seq No              | 1     | 0x65                         | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |                              | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|  | Cause                   | 1     | 0x0E                         | ID of Cause Information Element   |
|  | Cause Code              | 2     | 0x01<br>0x02<br>0x03<br>0x08 | Success<br>Already Being Configured<br>Not in Host List<br>Validation Failed  |

FIG. 13 - Authorization Reject Message 0x43 Information Elements

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| Message Elements  |                         | Bytes | Value | Description   |
|---|-------------------------|-------|-------|---|
| End of Call Message 0x44 Information Elements (Section 1) |                         |       |       |   |
|   | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|   | Rec_id                  | 1     | 0x5D  | ID of Rec_id Information Element  |
|   | Length (L)              | 1     |       | Length of Recd_id   |
|   | Record ID               | L     |       | Record ID of CDR  |
|   | Call Date               | 1     | 0x5e  | ID of Call Date Information Element   |
|   | Date                    | 8     |       | ASCII Date in format YYYYMMDD   |
|   | Call Time               | 1     | 0x5F  | ID of Call Time Information Element   |
|   | Time                    | 6     |       | ASCII Tim in format HHMMSS  |
|   | Billing UID             | 1     | 0x63  | ID of UID Information Element   |
|   | Length (L)              | 1     |       | Length of UID   |
|   | Billing UID             | L     |       | ASCII UID to Bill this call to  |
|   | OrigCh ID               | 1     | 0x60  | ID of Originating Channel ID Information Element  |
|   | IP Address              | 4     |       | IP Address  |
|   | span_id                 | 2     |       | Span ID   |
|   | channel_id              | 2     |       | Channel ID  |

FIG. 14a - End of Call Message 0x44 Information Elements (Section 1)

|                         |   |  |  |
|-------------------------|---|--|--|
| TmCh ID                 | 1 | 0x64   | ID of Terminating Channel ID Information Element   |
| IP Address              | 4 |  | Terminating IP Address   |
| span_id                 | 2 |  | Terminating Span ID  |
| channel_id              | 2 |  | Terminating Channel ID   |
| Disc Reason             | 1 | 0x61   | ID of Disconnect Reason Information Element  |
| Reason Code             | 1 | 0x01<br>0x02<br>0x03<br>0x04<br>0x05<br>0x06 | Terminating Side Disconnect<br>Originating Side Disconnect<br>Terminating Side All Trunks Busy<br>Far end number busy<br>Incomplete Dial<br>Dropped Call |
| Orig UID                | 1 | 0x46   | ID of UID Information Element  |
| Length (L)              | 1 |  | Length of UID  |
| Originating UID         | L |  | ASCII Originating UID  |
| Term UID                | 1 | 0x62   | ID of UID Information Element  |
| Length (L)              | 1 |  | Length of UID  |
| Terminating UID         | L |  | ASCII Terminating UID  |
| ORIG E164               | 1 | 0x69   | ID of OrigE164 Information Element   |
| Length (L)              | 1 |  | Length of Originating E164 Number  |
| Originating E164 Number | L |  | ASCII Originating E164 Number  |
| TERM E164               | 1 | 0x70   | ID of TermE164 Information Element   |
| Length (L)              | 1 |  | Length of Terminating E164 Number  |
| Terminating E164 Number | L |  | ASCII Terminating E164 Number  |
| Usage                   | 1 | 0x6c   | ID of Usage Information Element  |
| Usage                   | 4 |  | Usage in Host Byte Order   |

FIG. 14b - End of Call Message 0x44 Information Elements (Section 2)

| Message Elements                                  |                         | Bytes | Value | Description   |
|---|-------------------------|-------|-------|---|
| End of Call Ack Message 0x45 Information Elements |                         |       |       |   |
|   | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 15 - End of Call Ack Message 0x45 Information Elements

| Message Elements                                    |                         | Bytes | Value        | Description   |
|---|-------------------------|-------|--------------|---|
| Bandwidth Request Message 0x47 Information Elements |                         |       |              |   |
|   | Req Seq No              | 1     | 0x65         | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number | 2     |              | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|   | Class of Service        | 1     | 0x6e         | ID of Class of Service Information Element  |
|   | Number of Bytes in IE   | 1     |              | Number of bytes in Class of Service Information Element   |
|   | Class of Service        | 1     | 0x01<br>0x05 | Mulaw<br>SX7300   |
|   | Farend IP Addr          | 1     | 0x6f         | ID of Farend IP Address Information Element   |
|   | Length (L)              | 1     |              | Length of Farend IP Address   |
|   | Farend IP Address       | L     |              | Farend IP Address   |
|   | Orig UID                | 1     | 0x46         | ID of Originating UID information Element   |
|   | Length (L)              | 1     |              | Length of Originating UID   |
|   | Originating UID         | L     |              | ASCII Originating UID   |

FIG. 16 - Bandwidth Request Message 0x47 Information Elements

| Message Elements                                    |                         | Bytes | Value | Description   |
|---|-------------------------|-------|-------|---|
| Bandwidth Confirm Message 0x48 Information Elements |                         |       |       |   |
|   | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 17 - Bandwidth Confirm Message 0x48 Information Elements

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| Message Elements                                   |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| Bandwidth Reject Message 0x49 Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 18 - Bandwidth Reject Message 0x49 Information Elements

| Message Elements                          |                       | Bytes | Value        | Description   |
|---|-----------------------|-------|--------------|---|
| FaxCall Message 0x4A Information Elements |                       |       |              |   |
|   | Class of Service      | 1     | 0x6e         | ID of Class of Service Information Element              |
|   | Number of Bytes in IE | 1     |              | Number of bytes in Class of Service Information Element |
|   | Class of Service      | 1     | 0x01<br>0x05 | Mulaw<br>SX7300   |

FIG. 19 - FaxCall Message 0x4A Information Elements

| Message Elements                                 |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| GK Trunks Busy Message 0x4E Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 20 - GK Trunks Busy Message 0x4E Information Elements

| Message Elements                                     |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| GK TRUNKS BUSY ACK MESSAGE 0x4F Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 21 -GK TRUNKS BUSY ACK MESSAGE 0x4F Information Elements

| Message Elements                                     |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| GK TRUNKS BUSY ACK MESSAGE 0x4E Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 22 - GK TRUNKS BUSY ACK MESSAGE 0x4E Information Elements

| Message Elements                                   |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| GK TRUNKS UNBUSY MESSAGE 0x4C Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 23 - GK TRUNKS UNBUSY MESSAGE 0x4C Information Elements

| Message Elements                                       |                         | Bytes | Value | Description   |
|--|-------------------------|-------|-------|---|
| GK TRUNKS UNBUSY ACK MESSAGE 0x4D Information Elements |                         |       |       |   |
|  | Req Seq No              | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|  | Request Sequence Number | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |

FIG. 24 - GK TRUNKS UNBUSY ACK MESSAGE 0x4D Information Elements

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| Message Elements                            |                             | Bytes | Value | Description   |
|---|-----------------------------|-------|-------|---|
| Heartbeat Message 0x53 Information Elements |                             |       |       |   |
|   | Req Seq No                  | 1     | 0x65  | ID of Request Sequence Number Information Element   |
|   | Request Sequence Number     | 2     |       | This is a monotonically increasing number unique to the sender. It shall be returned by the receiver in any messages associated with this specific message. |
|   | UIDPIN                      | 1     | 0x6B  | ID of UIDPIN Information Element  |
|   | Length (L)                  | 1     |       | Length of UIDPIN  |
|   | UIDPIN                      | L     |       | ASCII UIDPIN  |
|   | Active Calls                | 1     | 0x7c  | ID of Active Calls Information Element  |
|   | Number of UID-SeqNum Tuples | 1     |       | Number of Sequence Number and Originating UID Tuples in this message  |
|   | SeqNum0                     | 1     |       | first byte of Sequence Number   |
|   | SeqNum1                     | 1     |       | second byte of Sequence Number  |
|   | Orig UID Length             | 1     |       | ASCII Terminating UID   |
|   | Originating UID             | L     |       | ASCII Originating UID   |

FIG. 25 - Heartbeat Message 0x53 Information Elements

# PC to PC - Forward Unconditionally

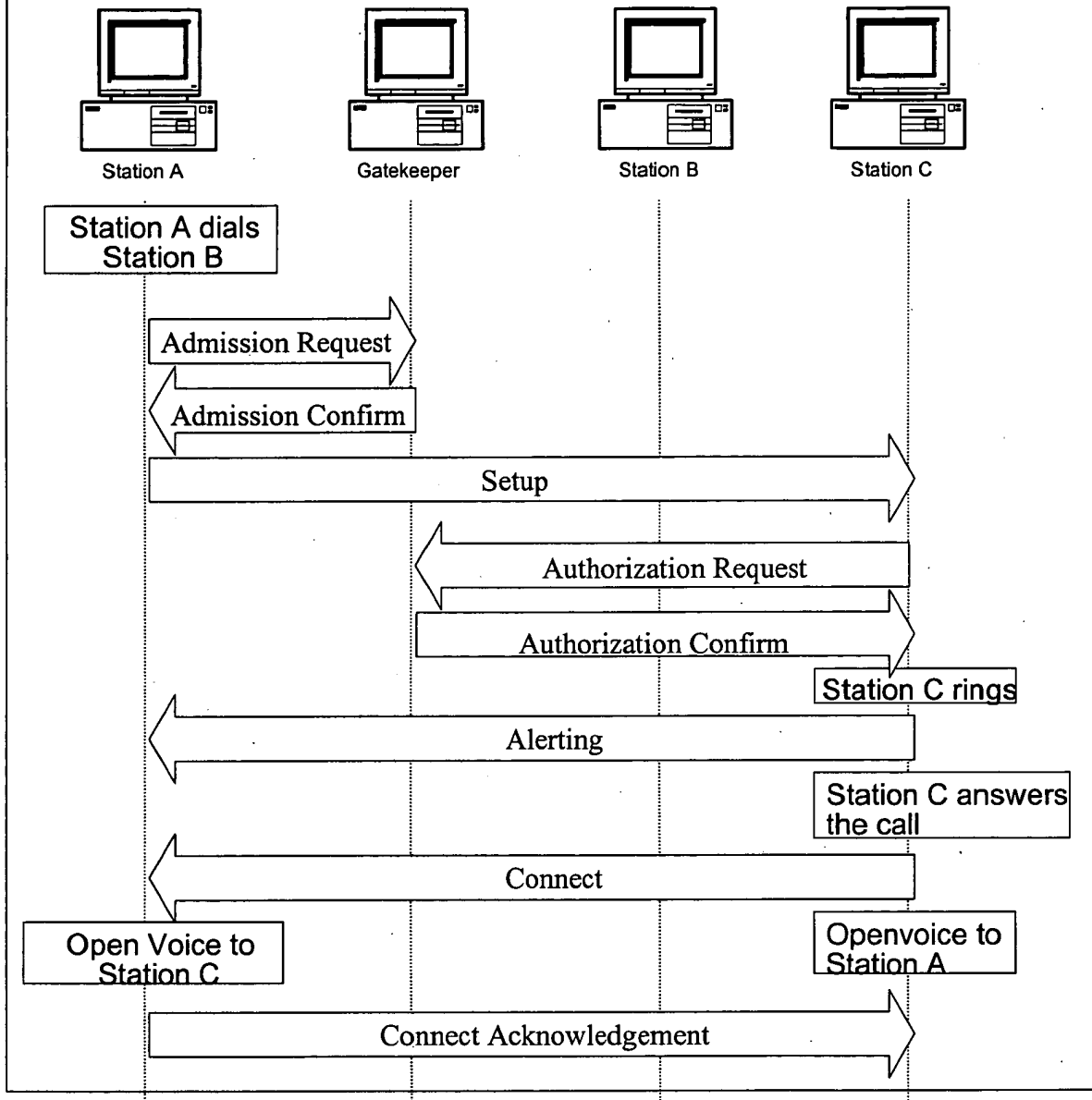


FIG. 26

005T50" 0224/560

006F50"02842560

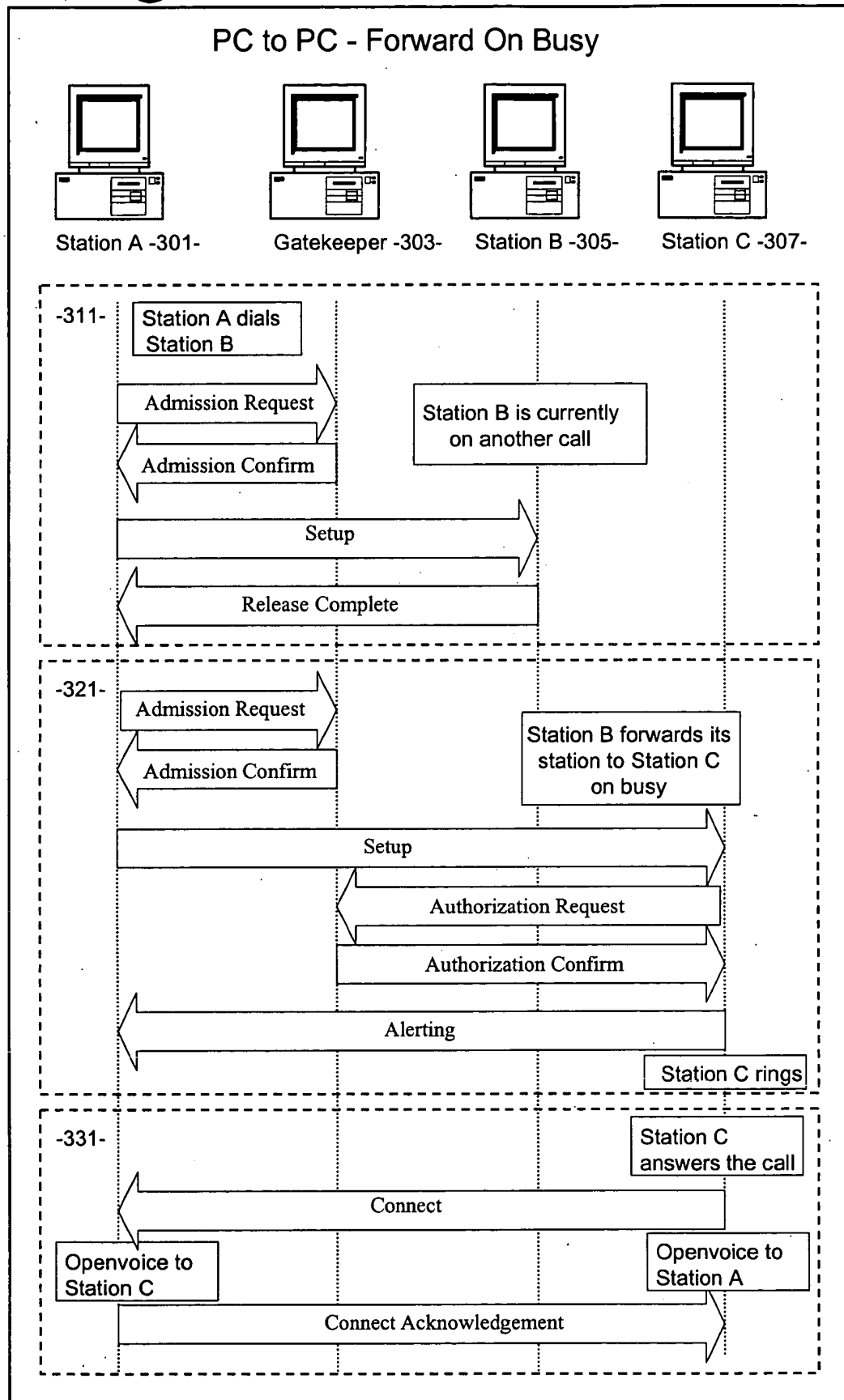


FIG. 27

006T50-02312560

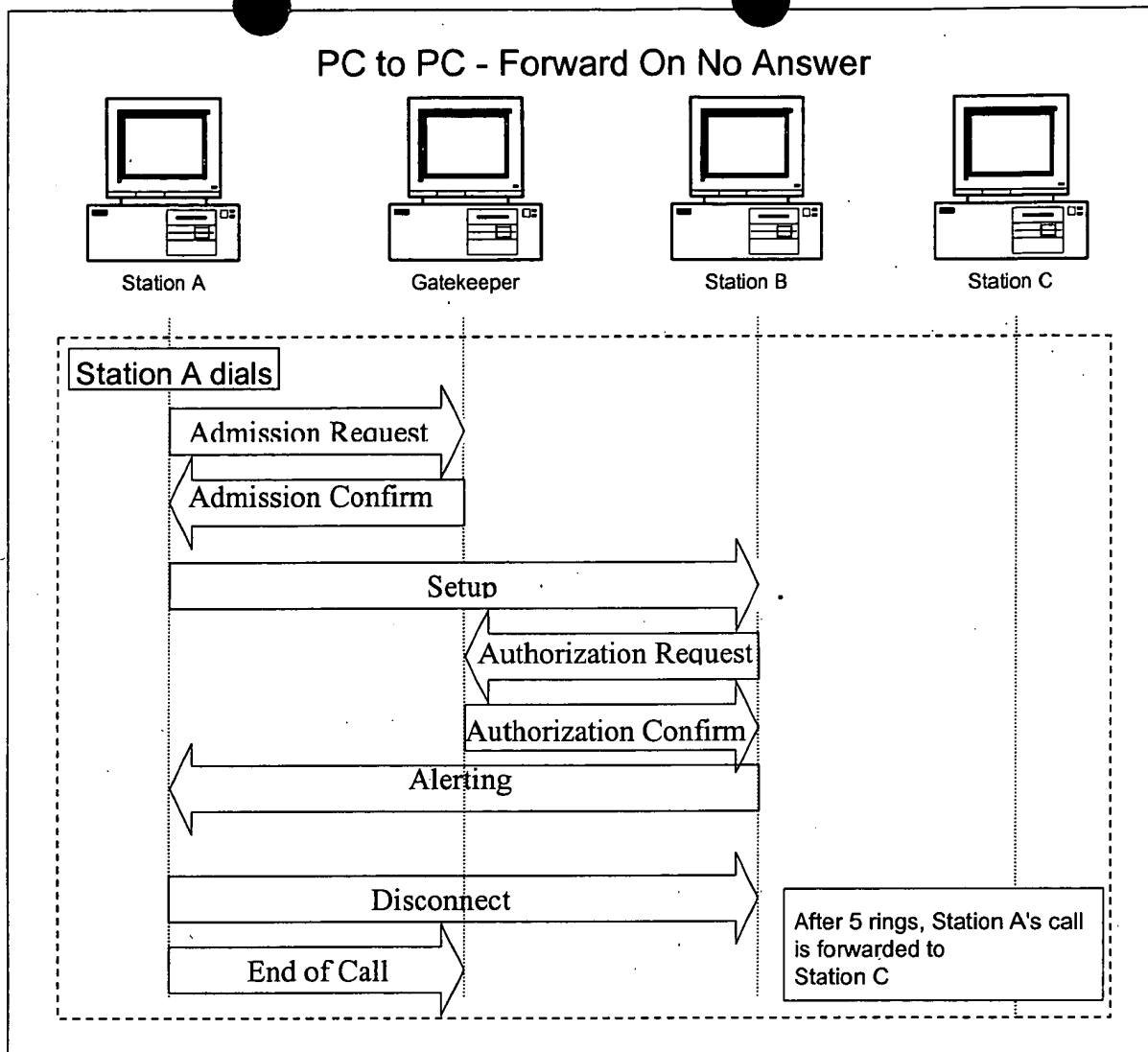


FIG. 28a

# PC to PC - Forward On No Answer (cont)

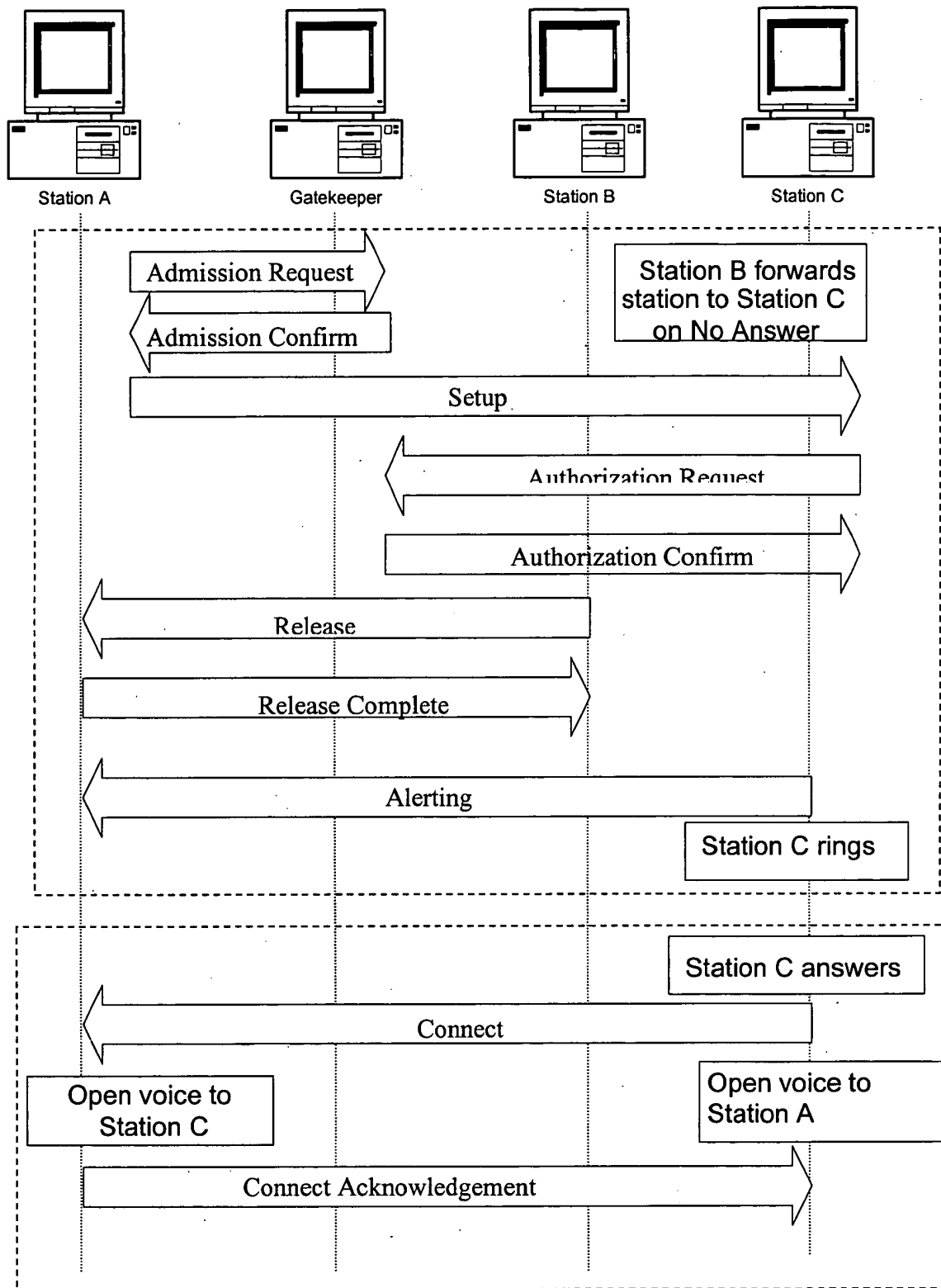


FIG. 28b

006T50-0287.560

006T50-02342560

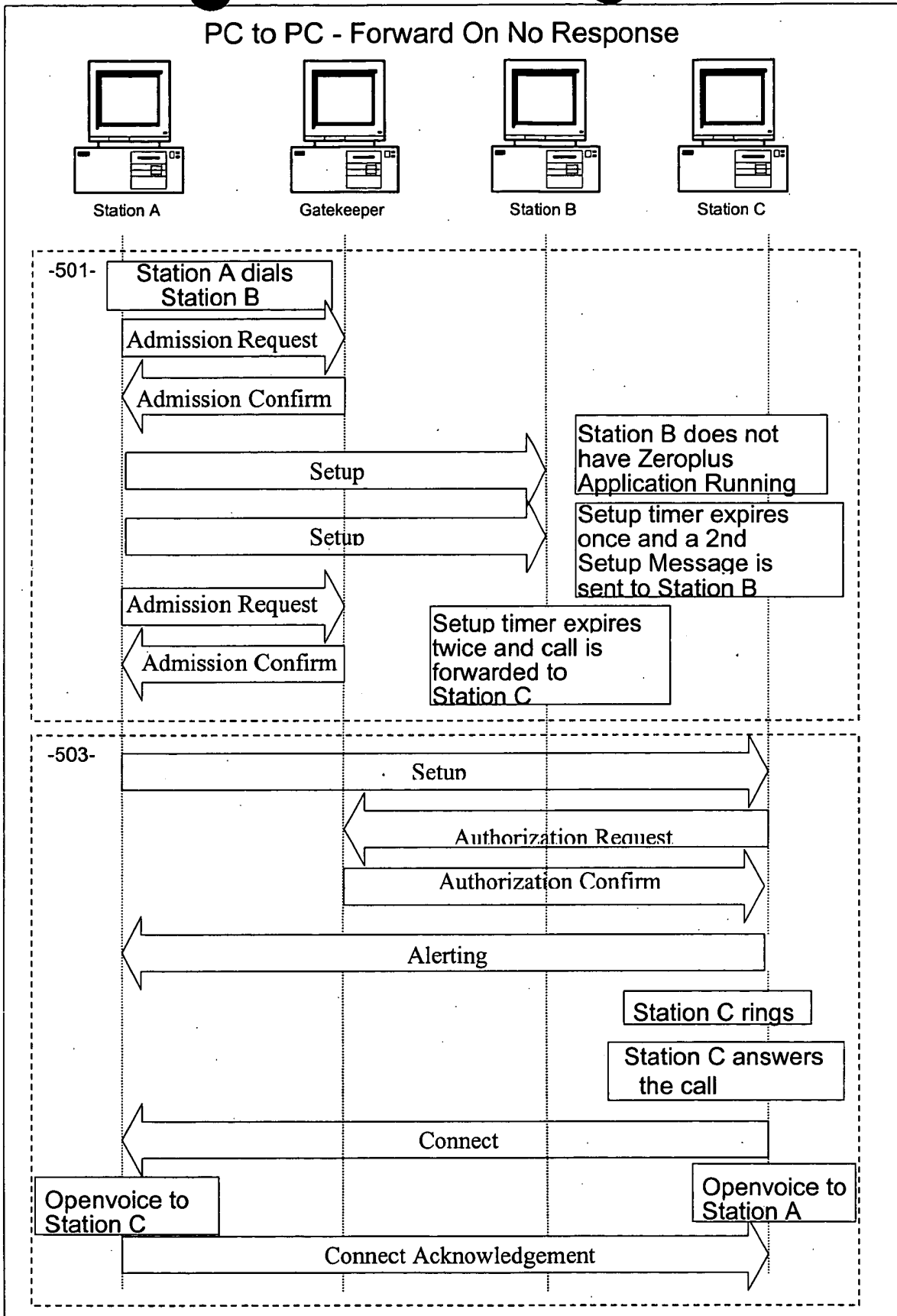


FIG. 29



006150-02872560

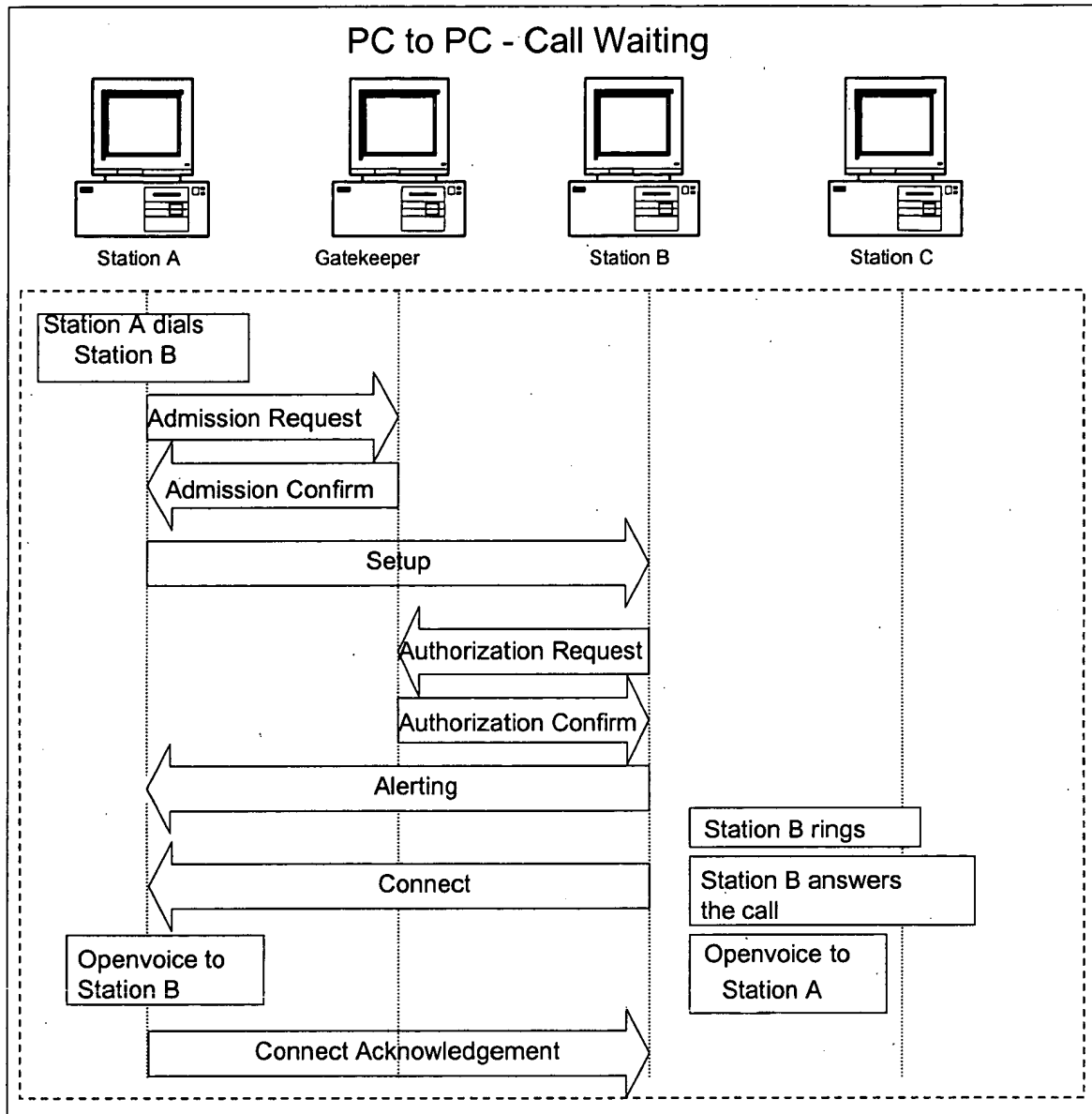


FIG. 30a

006T50" 023h2560

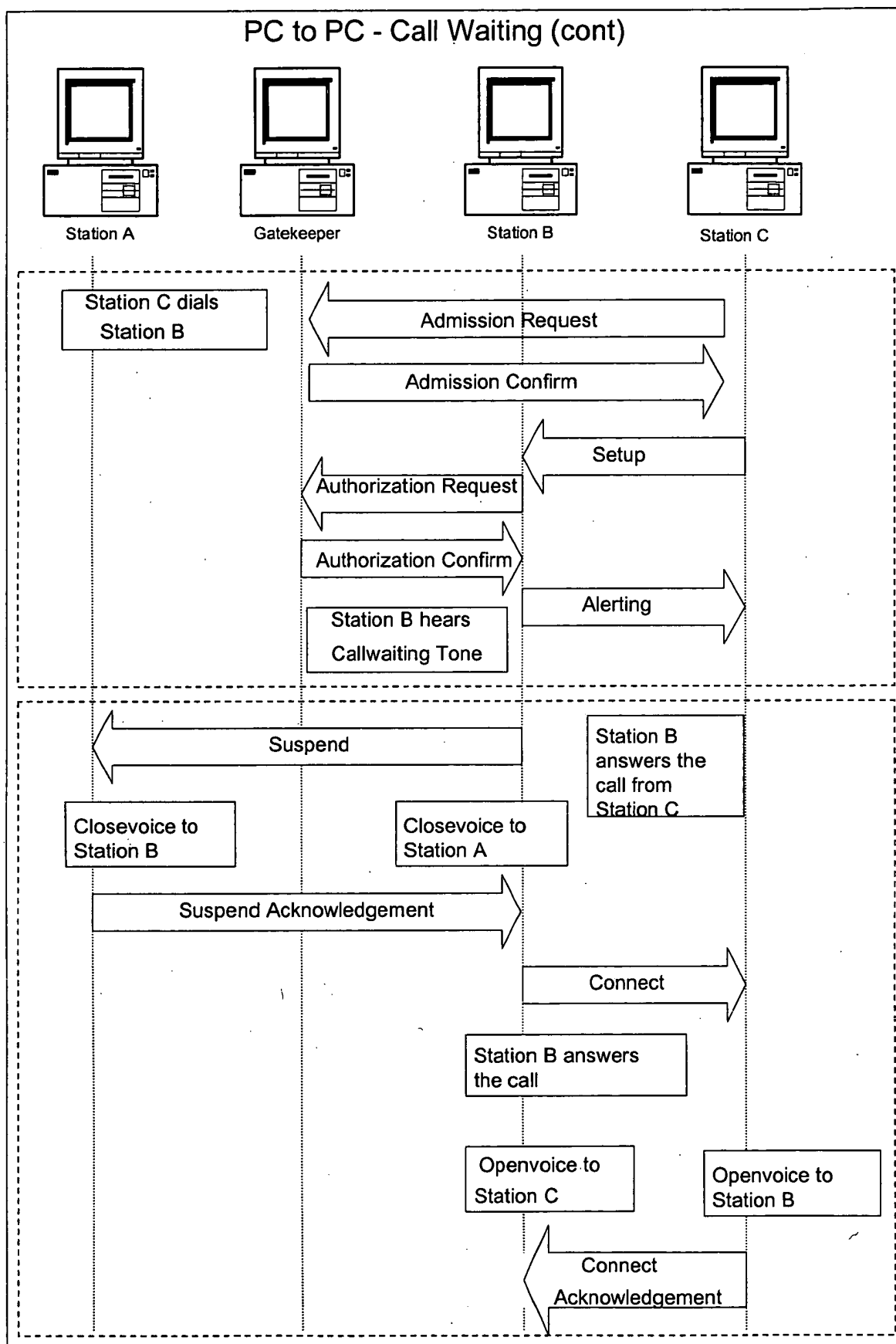
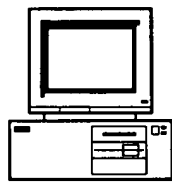
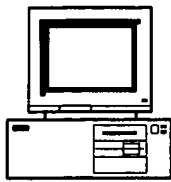


FIG. 30b

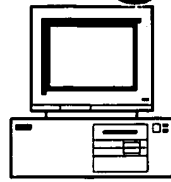
# PC to PC - Blind Trans



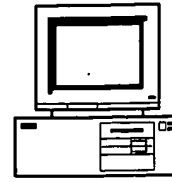
Station A



Gatekeeper



Station B



Station C

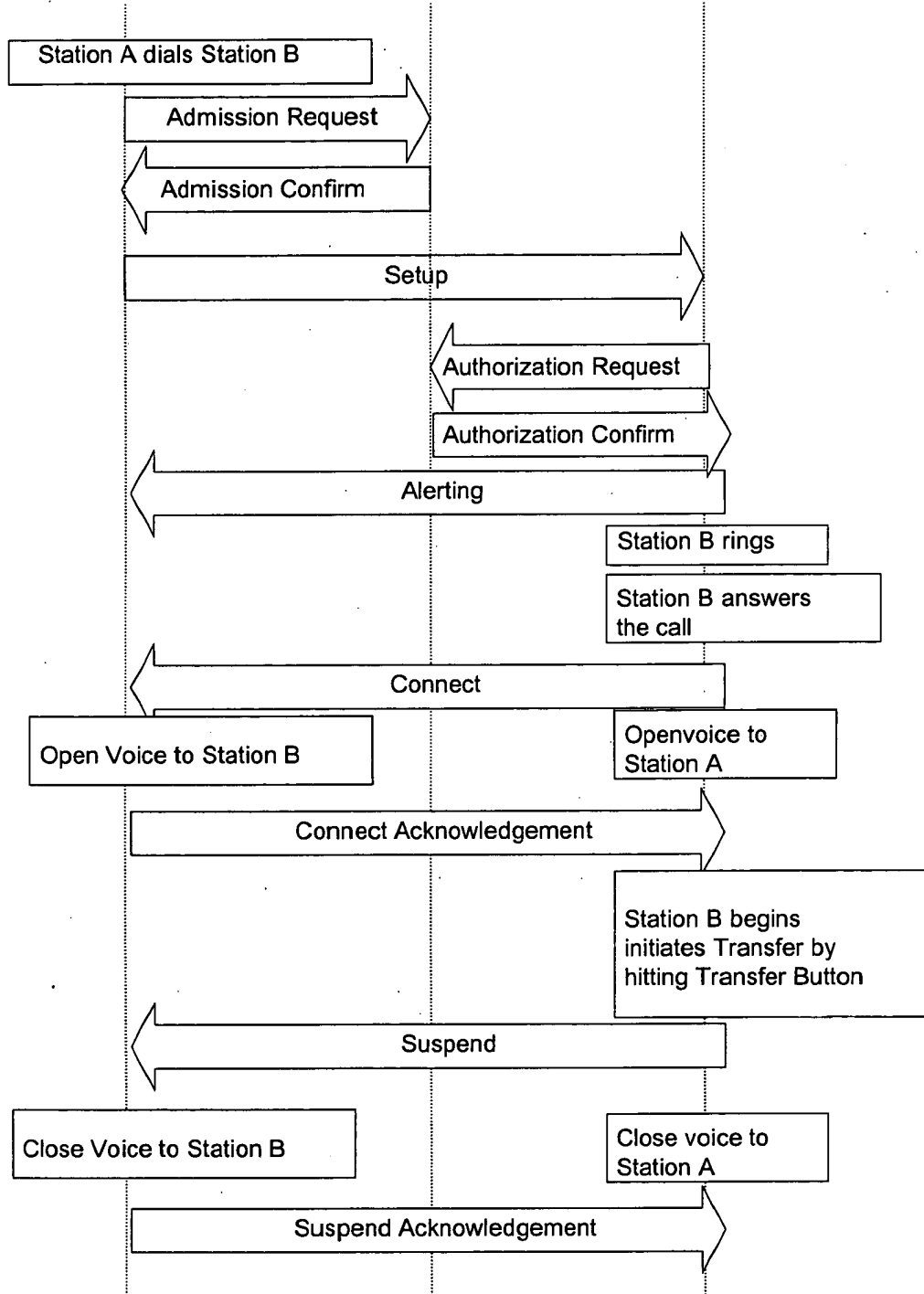


FIG. 31a

# to PC - Blind Transfer (cont)

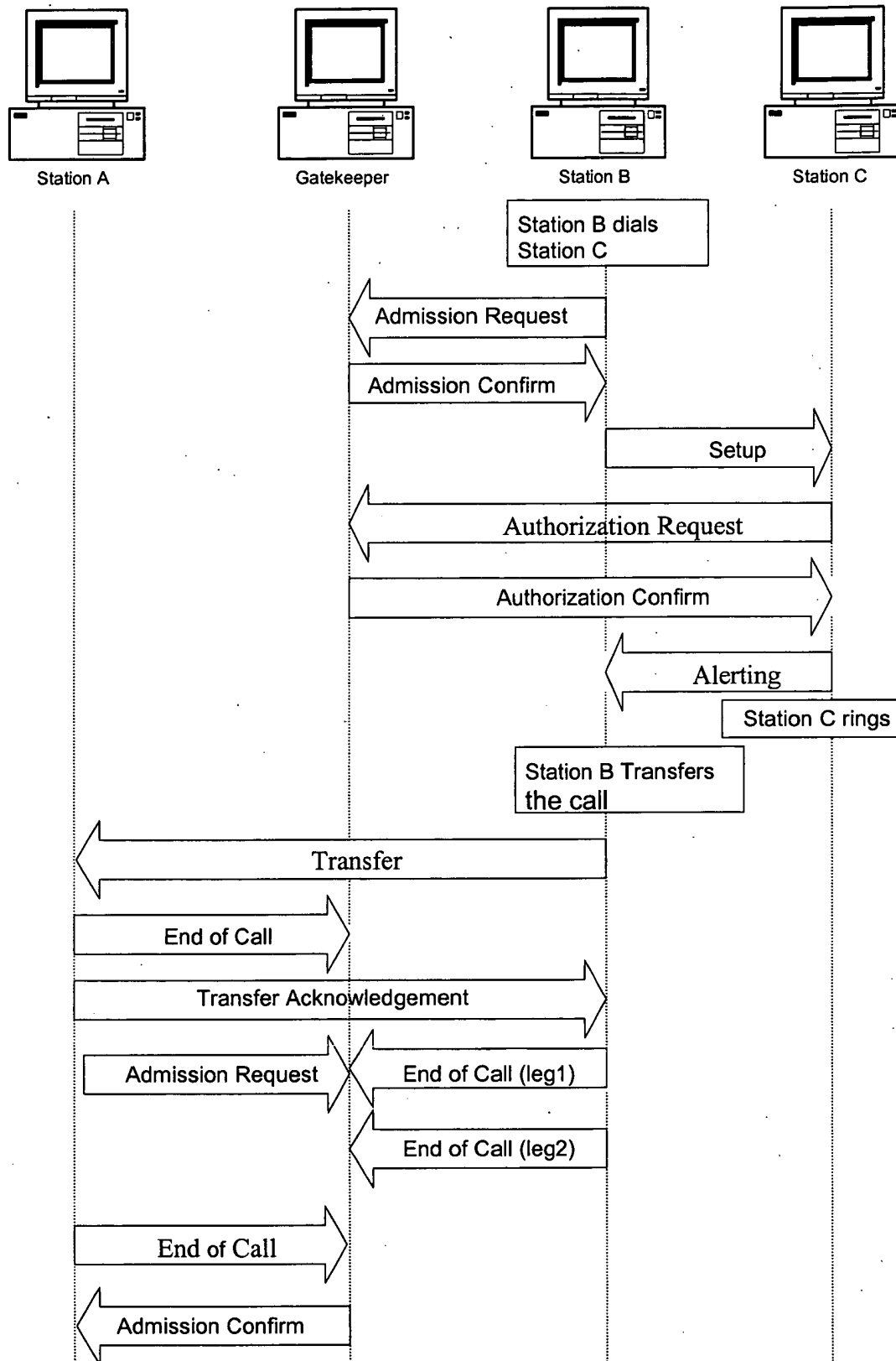


FIG. 31b

006T50-02842560

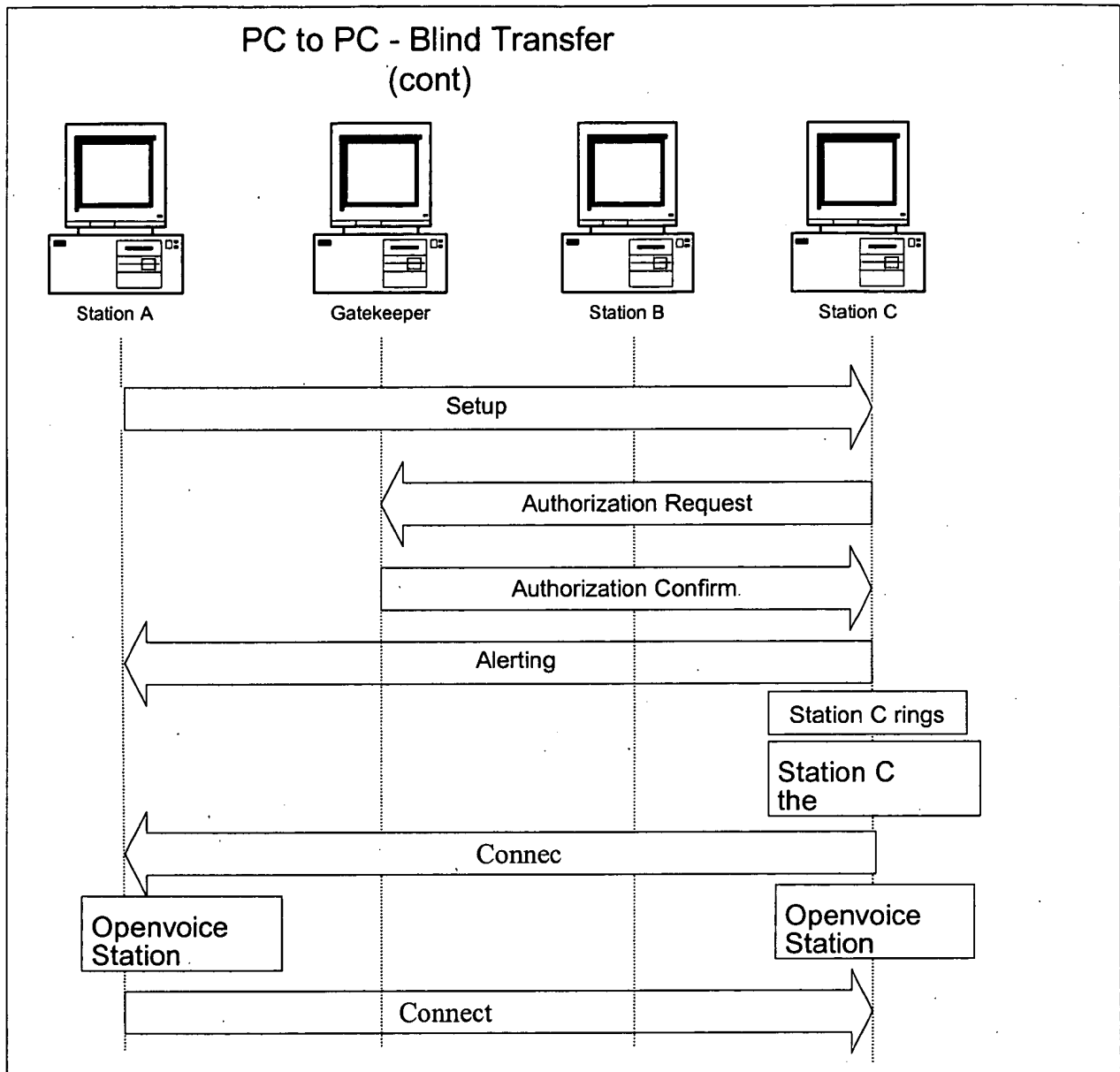


FIG. 31c

# PC to PC - Consultative Transfer

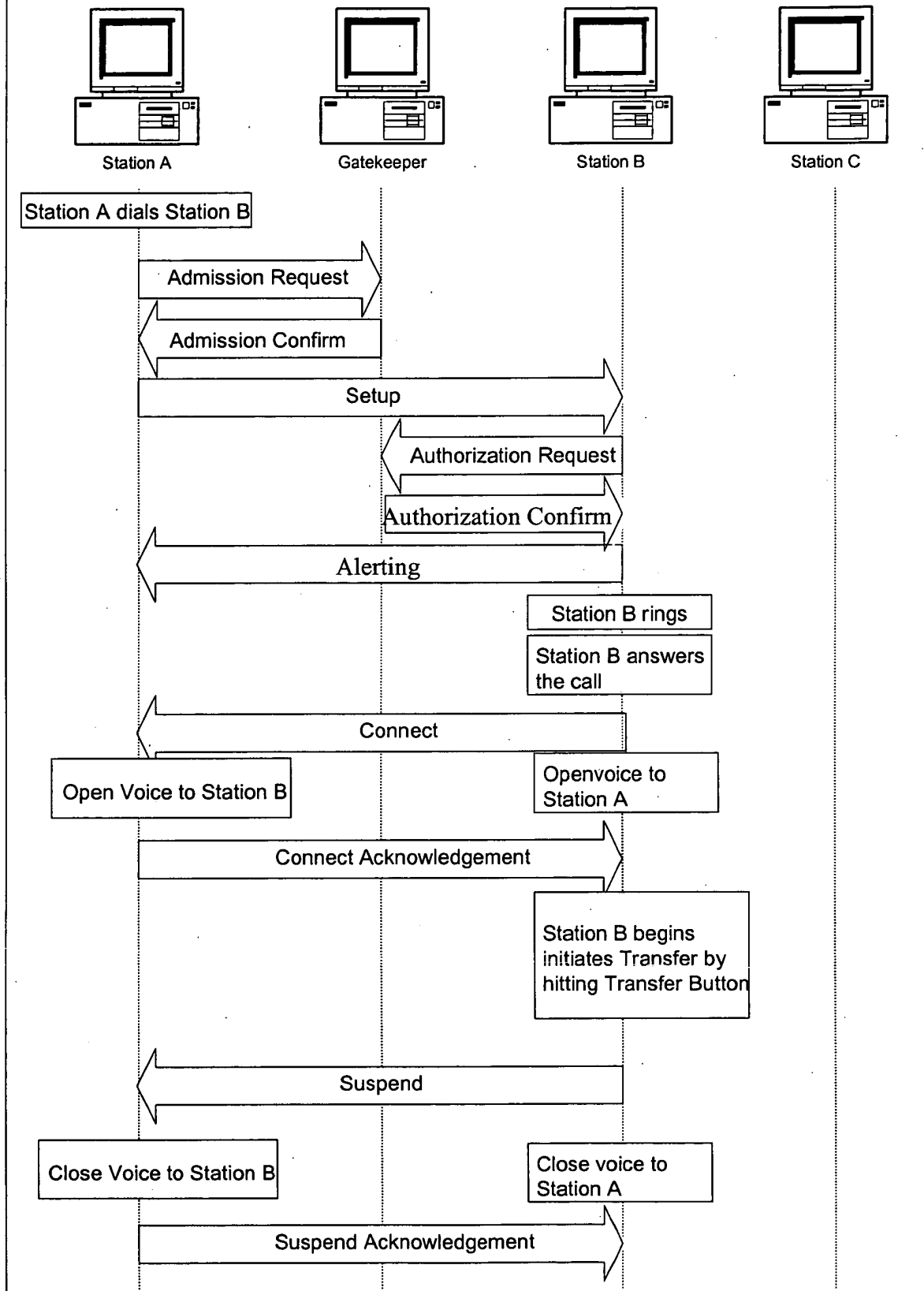


FIG. 32a

# PC to PC - Consultative Transfer (cont)

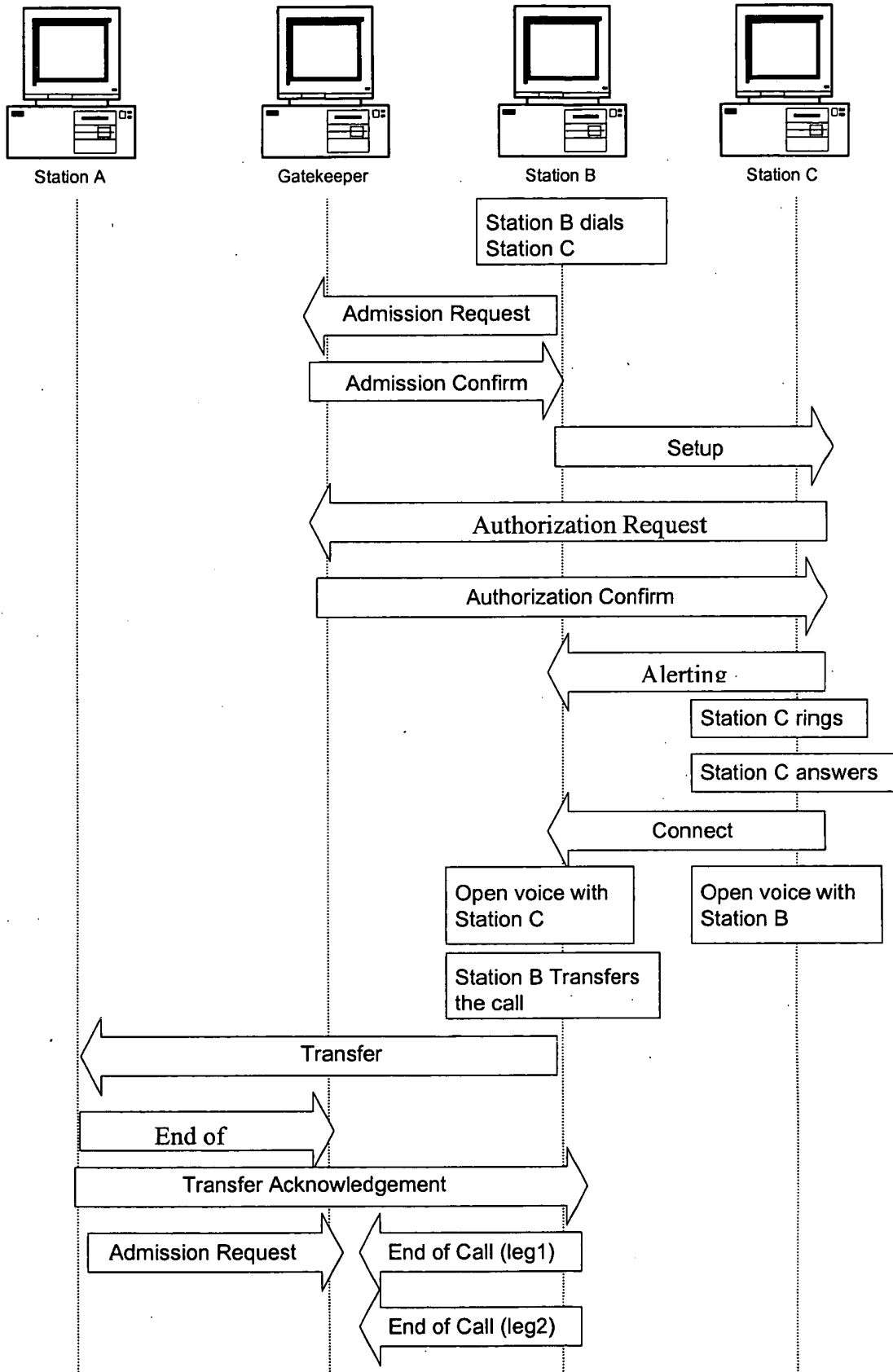


FIG. 32b

005T50-02242550

006T50" 02B4Z560

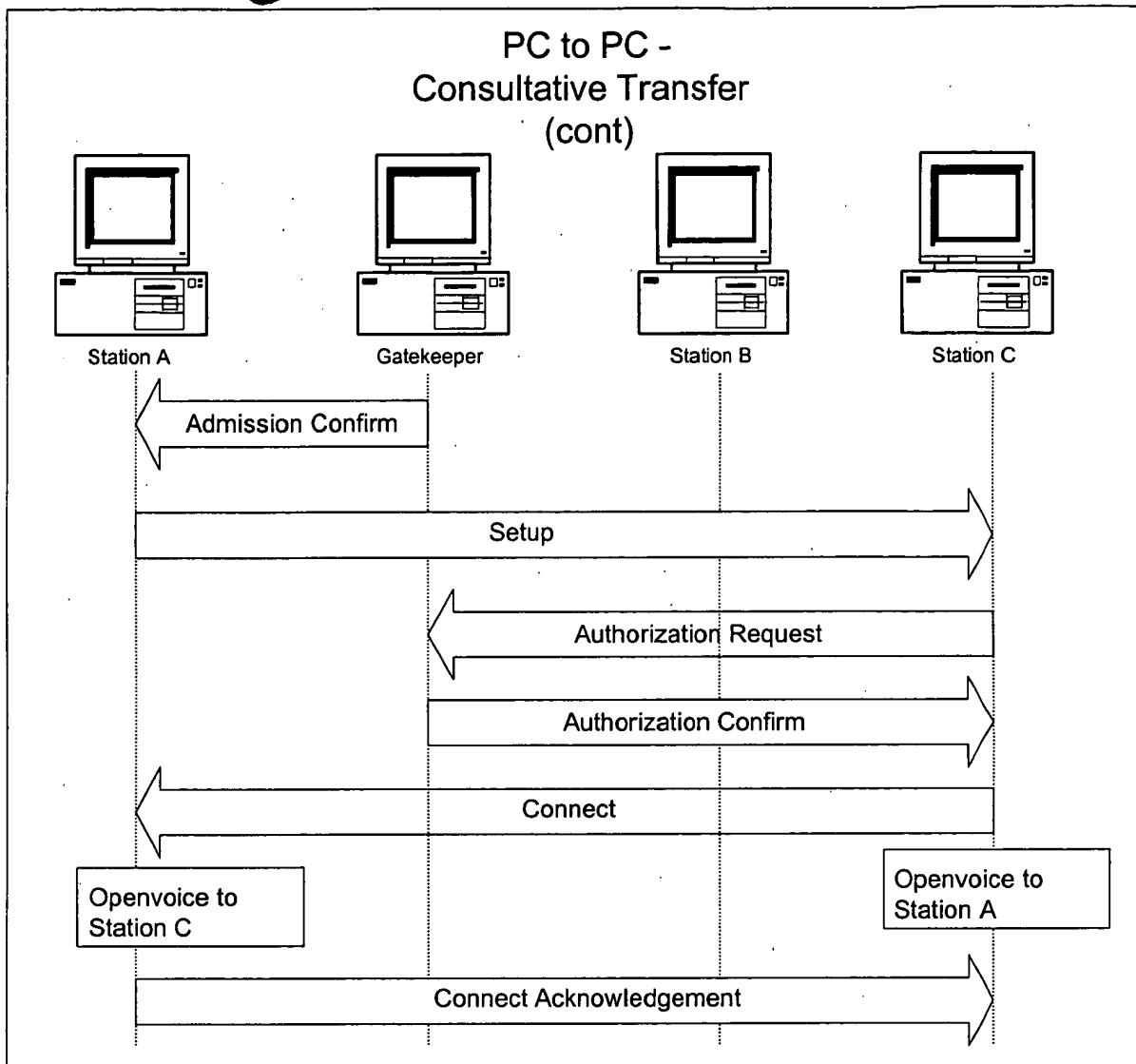


FIG. 32c



006T50-02874560

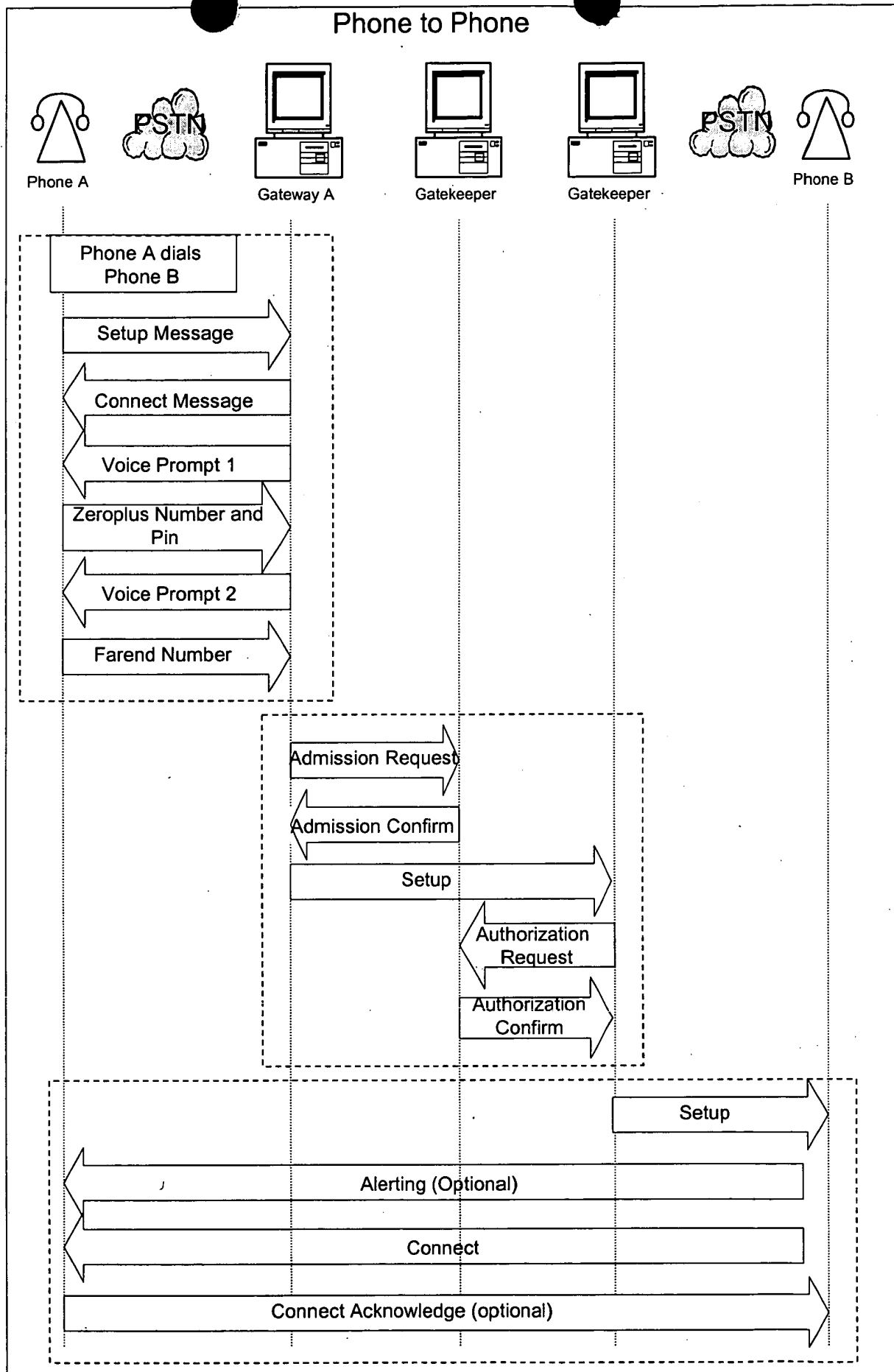


FIG. 33